



The H2020-MSCA-RISE-2017 Project GHAIA “Geometric and Harmonic Analysis with Interdisciplinary Applications”, GA n. 777822 is a mobility project of a network of European partners, among which the CNRS, the CAMS (UMR CNRS-EHESS) being the French node (scientific head for the project : Alessandro Sarti). The present call offers

### **10 Marie Skłodowska-Curie grants**

to PhD students, postdocs, researchers, faculties or staff who are **members of CNRS** for long research visits in a prescribed list of foreign universities, under the conditions inherent in the grant as detailed below. We specifically encourage applications from members of research units affiliated with both the **CNRS and the EHESS**.

## **Call for Mobility Projects 2022**

### **1. Description of the offer**

The objective of the mobility project is to carry out research **in mathematics or any mathematical modelling domain, in computer and data sciences**, such as (non exhaustive list) :

- a) mathematical methods in social science;
- b) structural and post-structural models;
- c) mathematical methods in morphogenesis;
- d) mathematical morphology of signs;
- e) theoretical life sciences;
- f) models of critical ecology;
- g) mathematical and computational neuroscience;
- h) artificial intelligence;
- i) epistemology of artificial intelligence
- j) data analysis, computer science, digital humanities;
- k) complementary skills and grant related skills;

The grant will fund research stays of **1 to 10 months** in one of the following institutes:

#### USA

- Princeton University;
- Yale University;
- Massachusetts Institute of Technology MIT;
- University of California (all campuses: Berkeley, Davis, Irvine, Los Angeles, Merced, Riverside, San Diego, San Francisco, Santa Barbara, Santa Cruz.);
- Columbia University in the City of New York;
- Leland Stanford Junior University;
- Johns Hopkins University;
- Washington University in St. Louis;
- Worcester Polytechnic Institute;
- University of Houston System;
- University of Pittsburgh;
- University of Texas (all campuses: Austin, Dallas, Arlington, El Paso, Rio Grande, San Antonio, Tyler);
- University of Illinois System;
- The University System of Maryland Foundation.

#### Argentina

- Universidad de Buenos Aires.

#### Australia

- The University of Western Australia;
- The University of Sydney.

#### Canada

- Queen's University at Kingston.

#### China

- Academia Sinica.

#### Europe

- GMV Madrid.

hereafter referred to as Host Institutes.

The grant will cover a net amount of 2000 € per month. This grant can be used in co-financing with any other projects funds, EXCEPT other full time grants (e.g. other Marie Skłodowska Curie fundings are NOT compatible).

## 2. Requirements of the Applicant

The present call is open to PhD students, postdocs, researchers or faculties, technical and administrative staff, who have been **appointed by the CNRS** for more than 6 months.

For the duration of the visit the applicant should remain member of the institutions.

Ph.D. students are allowed to participate during the legal length of their Ph.D. or even after that, prior to the defence. In any case the visit abroad must end before the defence.

Minimum length of the visit is one month, the maximum length is 10 months.

### 3. Instructions for application

Applications should be sent **by email, in pdf format**, to

Alessandro Sarti: [alessandro.sarti@ehess.fr](mailto:alessandro.sarti@ehess.fr)

with copy to

Jean-Pierre Nadal: [jean-pierre.nadal@ehess.fr](mailto:jean-pierre.nadal@ehess.fr)

subject : GHAI A

Any preliminary inquiry on aspects of the present call can be addressed to the same e-mail.

Applications must include the following documents, in pdf format:

- a research proposal with date and signature (max 1 page);
- a Curriculum Vitae with date and signature;
- an invitation letter by the scientist in charge of supervising the research in the Host Institute, indicating the proposal title, the name of the applicant and the period of the stay;
- in case the applicant is a PhD student, a presentation letter by the PhD supervisor.

The research proposal should be prepared according to the following scheme.

- PROPOSAL TITLE:
- NAME & First name of the applicant
- AFFILIATION: email (give an institutional address, such as [XXX@ehess.fr](mailto:XXX@ehess.fr)), Full address, Status, Employment contract with the CNRS: dates (beginning/end).
- PROPOSED HOST INSTITUTE: [to be chosen within the list in section 1.]
- PROPOSED DURATION AND DATES OF THE RESEARCH STAY: [in between 1 and 10 months, **departure date** should be **between November 2022 and September 2023**]
- NAME AND AFFILIATION OF THE SCIENTIST IN CHARGE OF SUPERVISING THE RESEARCH IN THE HOST INSTITUTE:
- SCIENTIFIC PROPOSAL, SPECIFYING THE FOLLOWING POINTS: [max 5000 characters]
  - description and state of the art of the problem to be addressed;
  - relationship with the scientific areas objective of the proposal;
  - expertise of the research group/scientist in charge at the Host Institute;
  - results expected from the proposed research stay.

**application deadline: 15 September, 2022**

### 4. Evaluation

Priority will be assigned to proposals depending on their scientific relevance, the feasibility of the expected results, the impact, and the match between the proposed problem and the profile of the Scientist in charge in the Host Institution.

Incomplete proposals (*i.e.* invitation letter missing) will be taken into account, but with a penalization. In this case, if the proposal is accepted, the visit cannot start until an invitation letter is presented.

The proposals will be financed in order of ranking.

The selected candidates will be informed of the positive evaluation by **30 September 2022**, and they will have time until **10 October 2022** to accept the grant.